

FORT MCCOY



**Energy History Report
1990-2006**

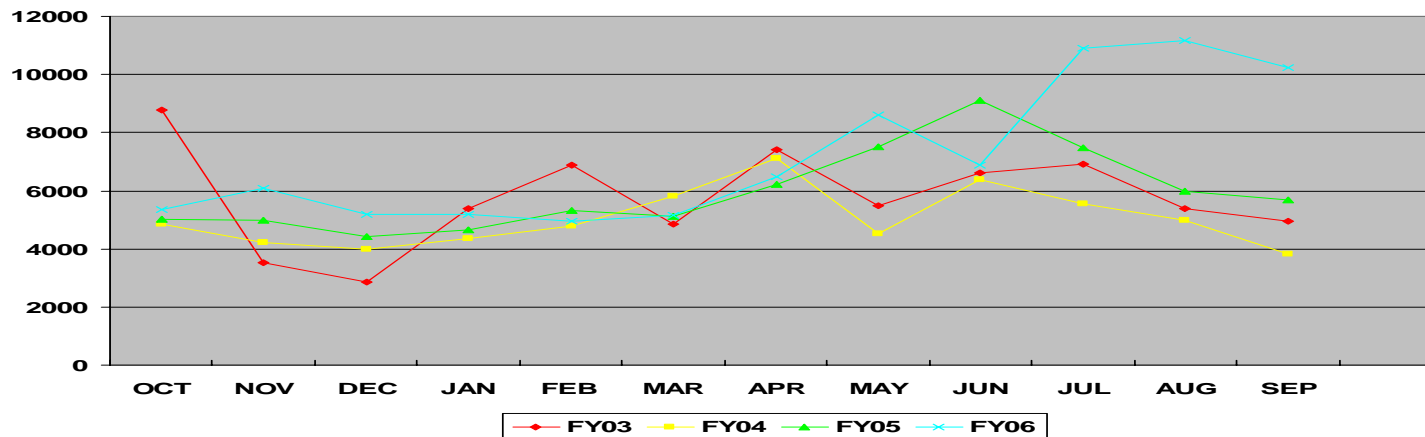
FORT McCOY 1990

- ▶ **Out of the Approximately 1200 Facilities
60% burned hand shoveled lump coal or
auger-fed stoker coal.**
- ▶ **The remaining 40% were comprised of
Electric, Wood Pellet, LP Gas or Natural
Gas fired equipment**
- ▶ **90% of Facility SF is WWII Wood (1942)**

FORT McCOY 1990-1996

- ▶ Massive Multiple Heating Plant Conversion Projects to LP Gas Fired Equipment**
- ▶ By 1996 all Facilities burned either LP Gas or Natural Gas**
- ▶ In Process of Solicitation of a Third Party Natural Gas Contract**
- ▶ Natural Gas Contract Awarded May 1996**

Post Population Profile



- Due to Mobilization, DeMobilization and Annual Training schedules, Fort McCoy has an ever changing post population.

FORT McCOY'S MISSION

- ▶ Provide Facilities and Training Areas for Army, National Guard and other Government Agencies**
- ▶ Provide Mobilization and DeMobilization Services and Support**

Fort McCoy Energy Reduction Goals

A minimum reduction of 2% per year from FY 03 is to be attained from FY 06 – FY 15.

Overall goal is 20% reduction thru FY 15.

FY 03 Baseline Yearly MBTU/KSF – 131.04

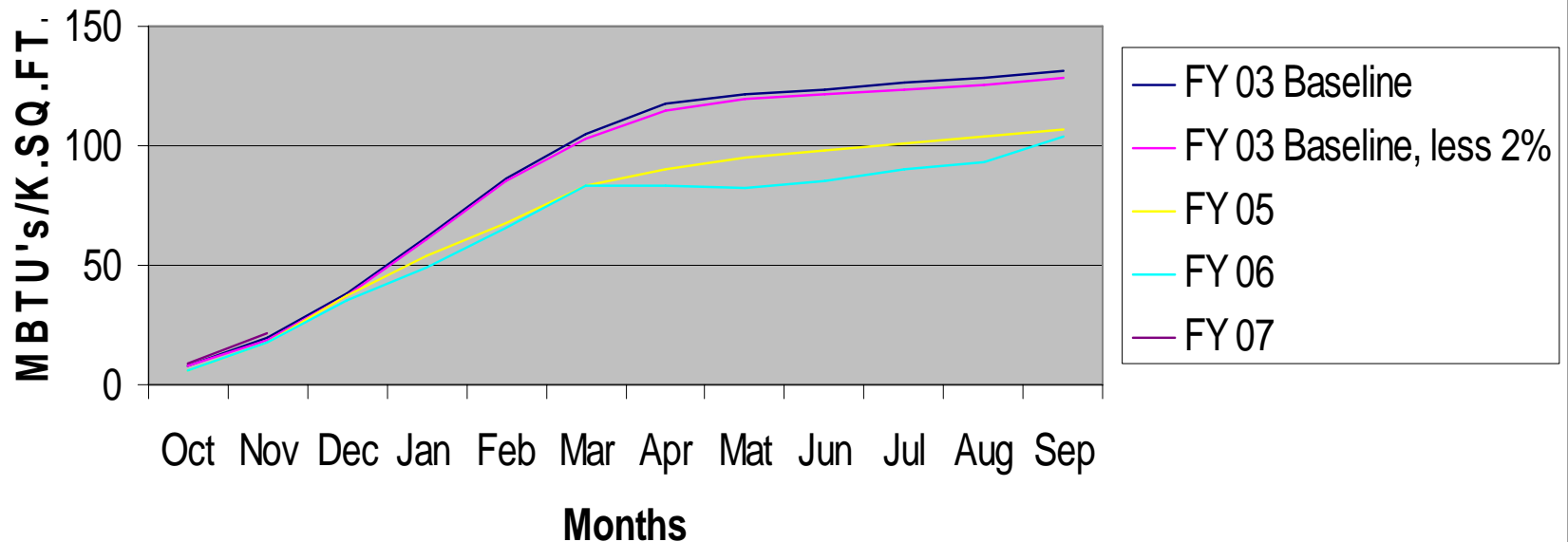
FY 05 MBTU/KSF – 107.27 (18.1% Decrease from FY 03 Baseline)

FY 06 MBTU/KSF – 103.65 (20.9% Decrease from FY03 Baseline)

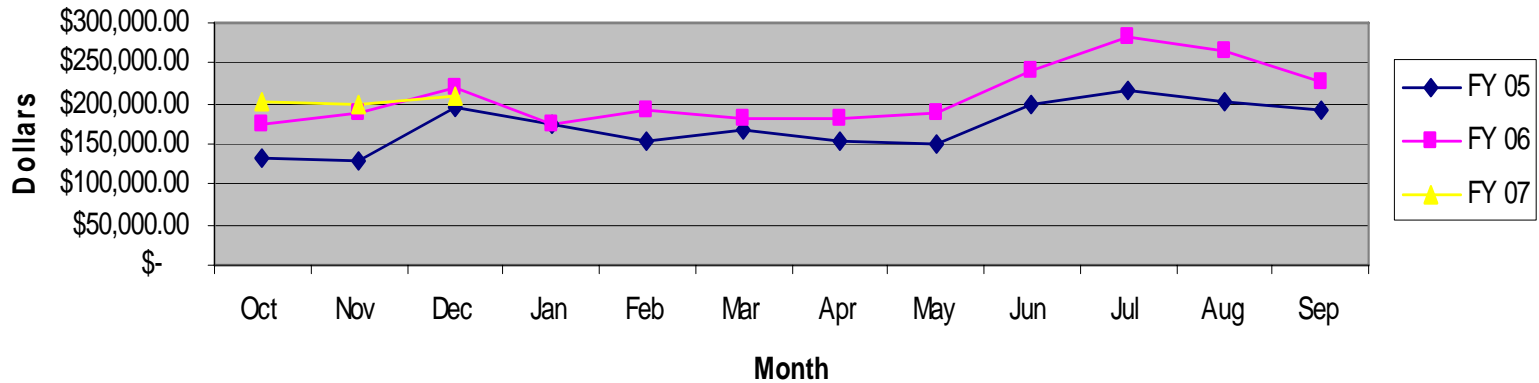
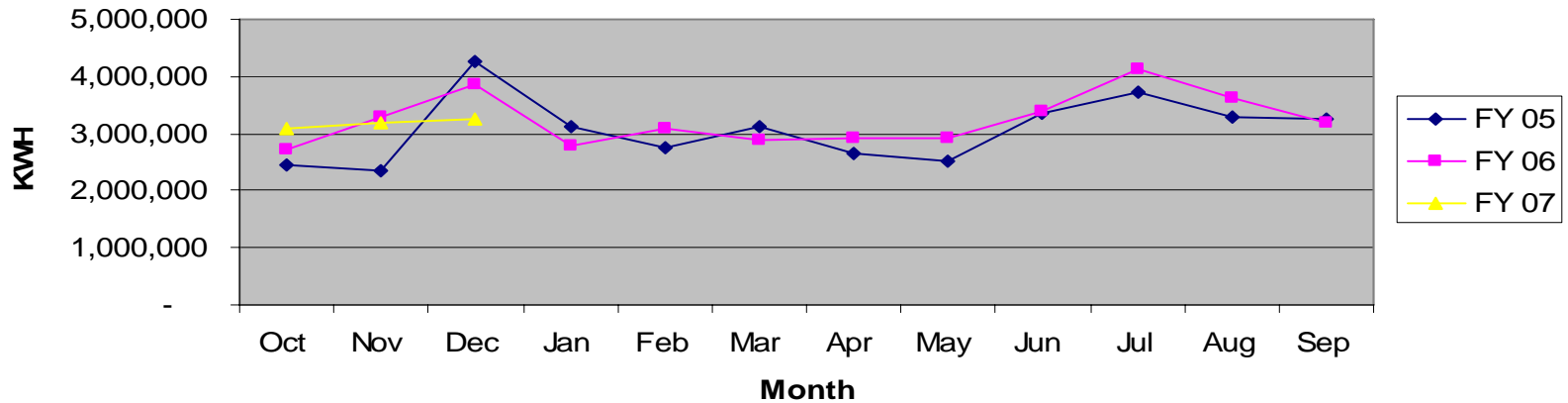
FY 07 MBTU/KSF – Only details Oct and Nov Data

3.4% Decrease from FY 05 to FY 06

FY 03 Baseline MBTU's/SF



Electric Consumption



Total Electric KWH & Costs

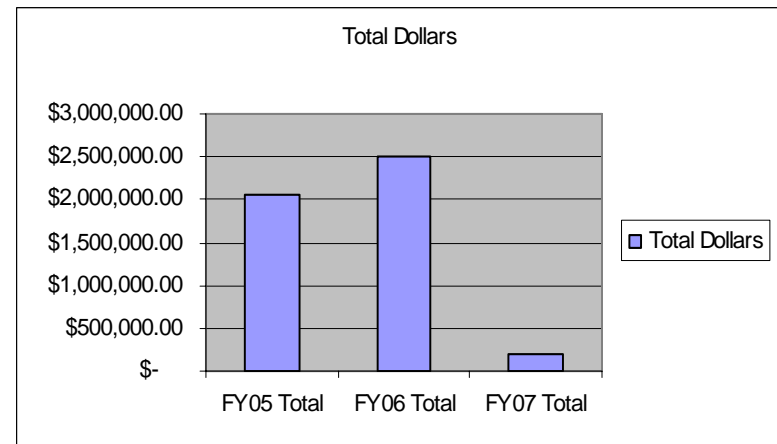
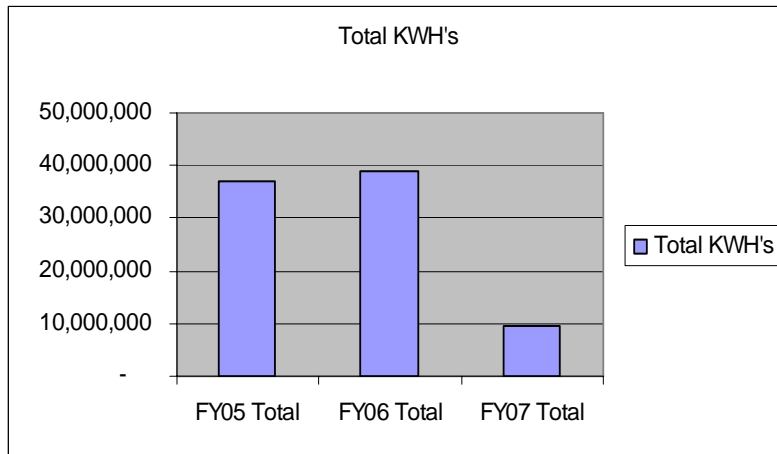
FY 05 - 36,839,800 KWH = \$ 2,060,194 = \$.056/KWH

FY 06 - 38,802,472 KWH = \$2,512,914 = \$.065/KWH

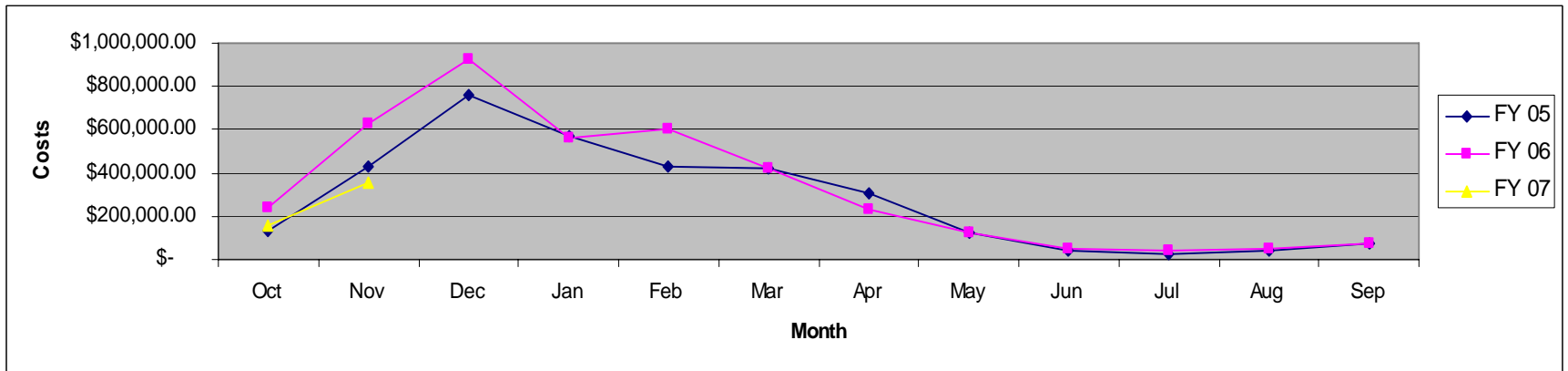
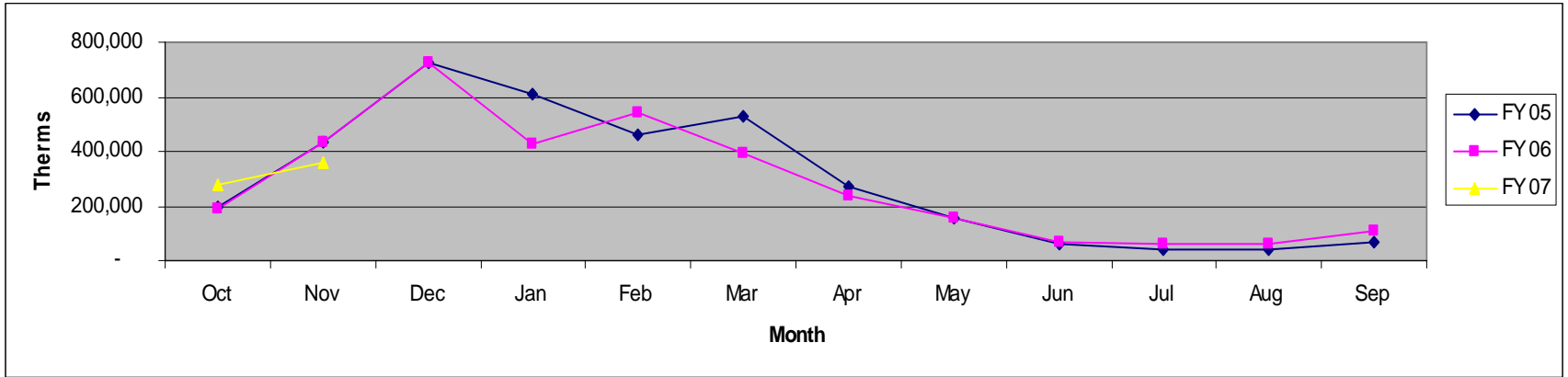
FY 07 Data is for the 1st Quarter only

KWH Usage Increased 5.3% from FY05 to FY 06

Costs Increased 22% from FY05 to FY06



Natural Gas Consumption



Natural Gas Totals

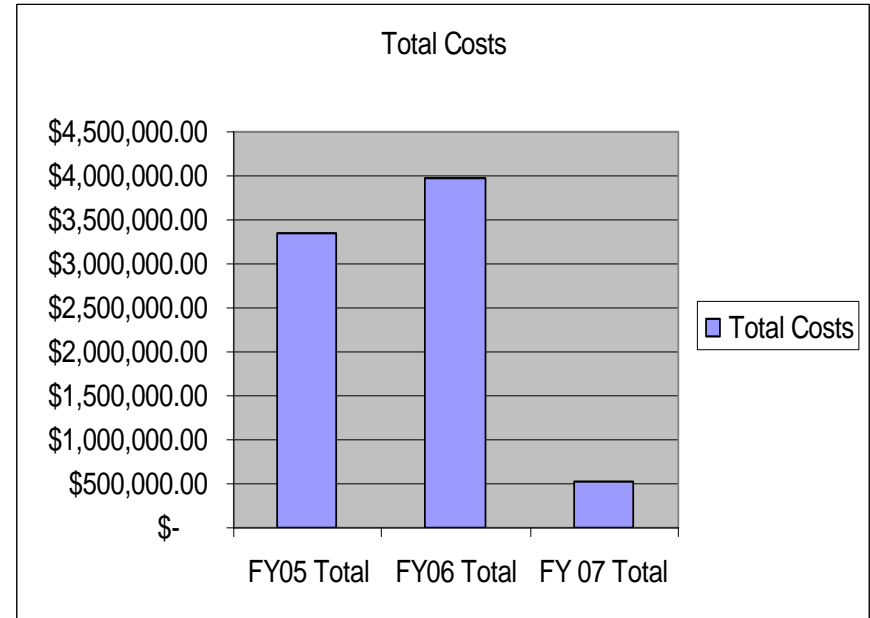
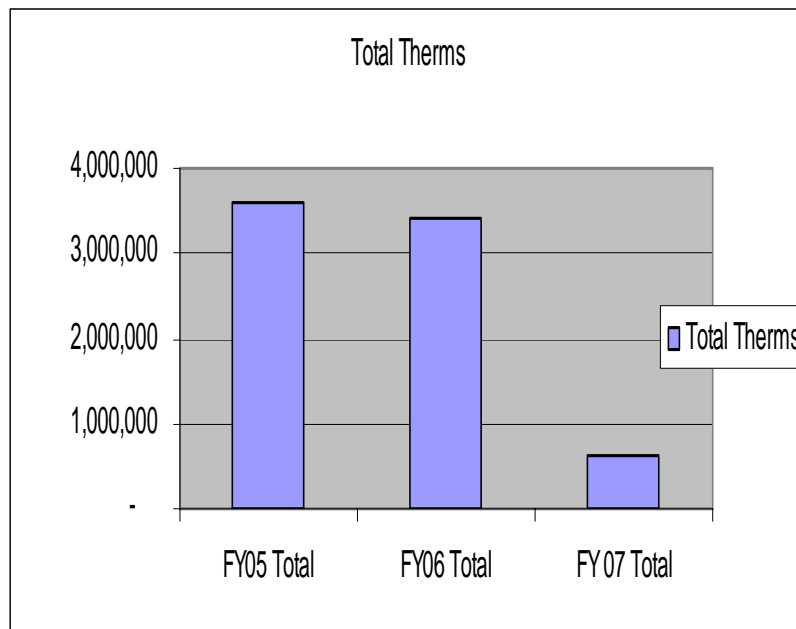
FY05 - 3,592,441 Therms = \$3,351,827.85 = \$.933 per Therm

FY06 - 3,398,578 Therms = \$3,967,163.64 = \$1.167 per Therm

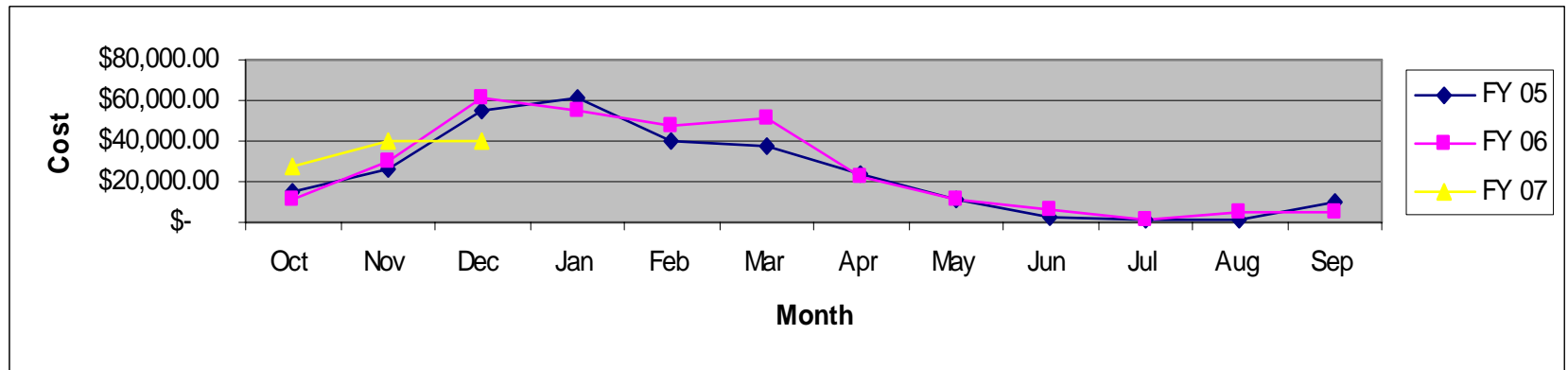
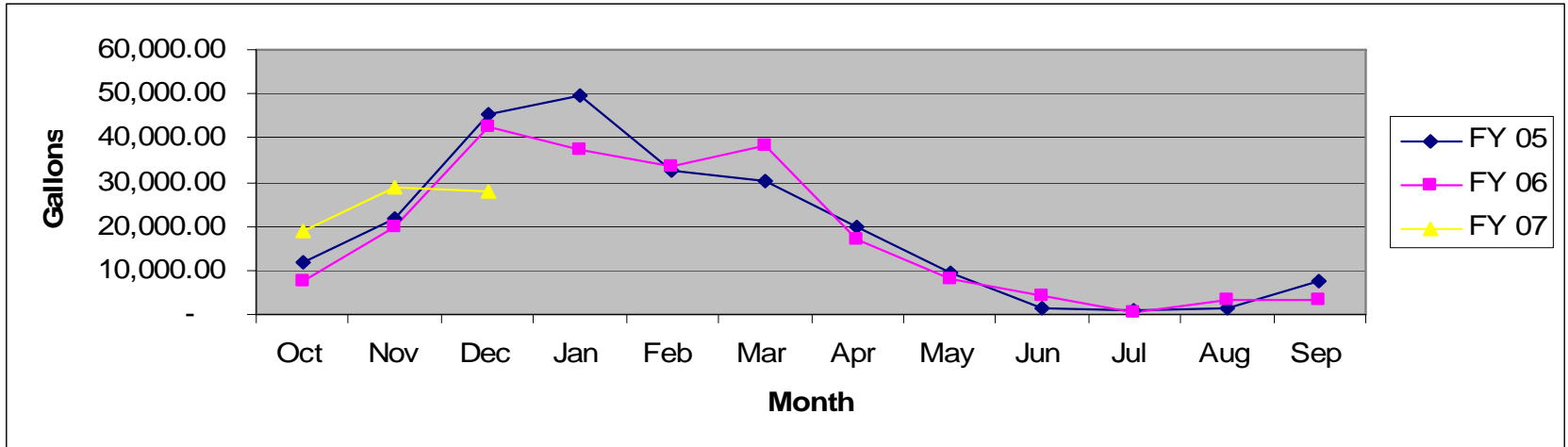
FY 07 Data is for the 1st Quarter only

Natural Gas Usage Decreased 5.4% from FY05 to FY06

Natural Gas **Costs Increased 18.4% from FY05 to FY06**



LP Gas Consumption



LP Gas Totals

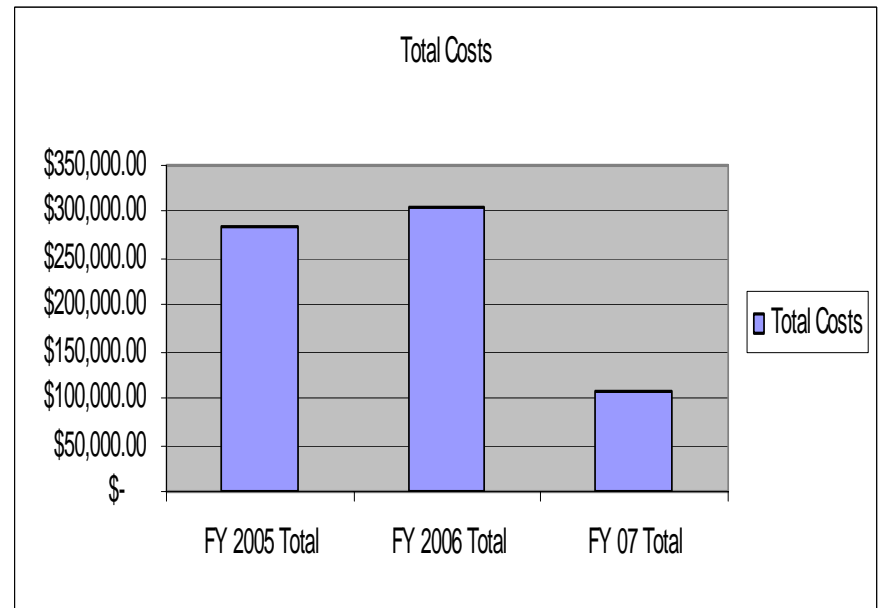
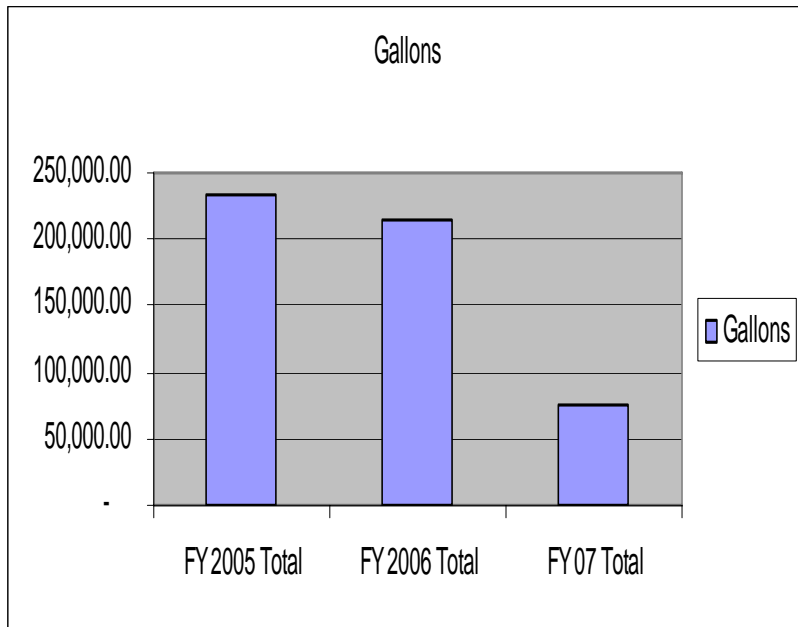
FY 05 – 232,547.93 Gallons = \$284,785 = \$1.23/Gal

FY 06 – 215,045.70 Gallons = \$306,209 = \$1.42/Gal

FY 07 Data illustrates 1st quarter Data only

LP Gas Usage decreased 7.5% from FY05 to FY06

LP Gas **Costs increased 7.5% from FY05 to FY06**



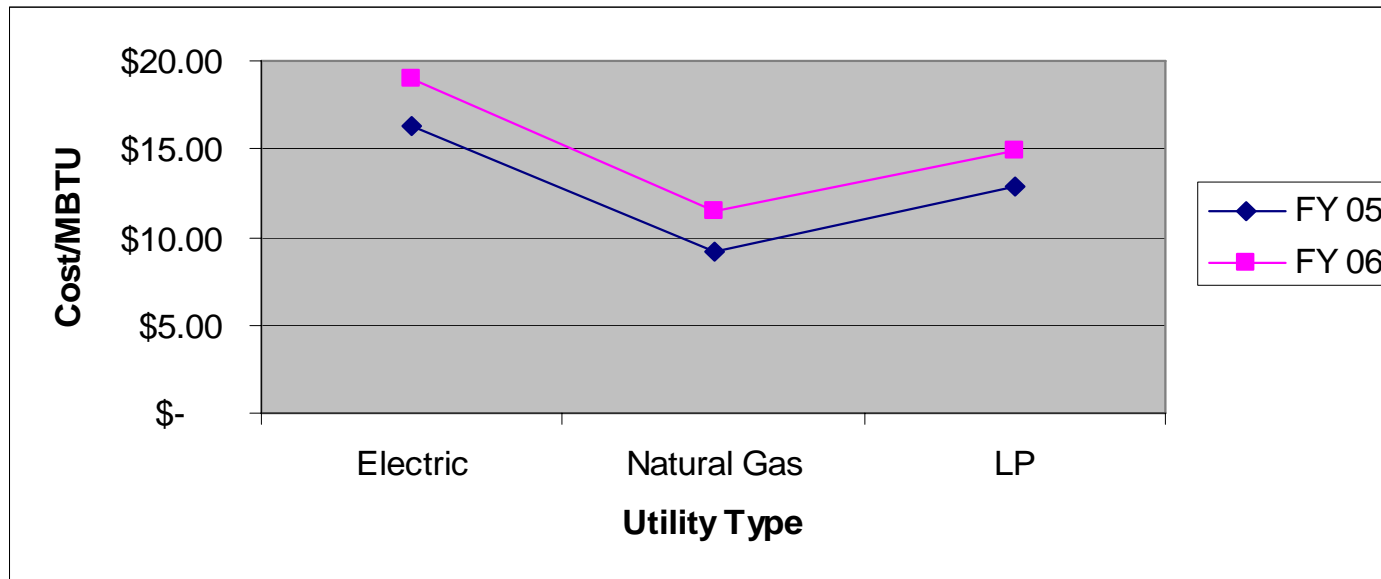
Energy Costs/MBTU's

<u>FY05</u>	<u>Costs</u>	<u>MBTU's</u>	<u>Cost/MBTU</u>
Electric	\$ 2,060,194	126,783	\$ 16.25
Natural Gas	\$ 3,351,828	365,085	\$ 9.18
<u>LP</u>	<u>\$ 284,785</u>	<u>22,092</u>	<u>\$ 12.89</u>
Total	\$ 5,696,807	513,960	\$ 11.08

<u>FY 06</u>	<u>Costs</u>	<u>MBTU's</u>	<u>Cost/MBTU</u>
Electric	\$ 2,512,914	132,326	\$ 18.99
Natural Gas	\$ 3,967,164	345,303	\$ 11.49
<u>LP</u>	<u>\$ 306,209</u>	<u>20,512</u>	<u>\$ 14.93</u>
Total	\$ 6,786,287	498,141	\$ 13.62

Energy Costs/MBTU's

(Previous Slide)



Summary

- Active participation in Passive energy conservation has allowed Fort McCoy to already meet the 20% reduction from the 2003 baseline.
- You don't need money to save energy, just commitment.